



## Record heat waves in Moldova in 2007: Identification, description, and health consequences

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### Abstract:

American Meteorological Society Conference, Joint Poster Session, Paper 216, Environment and Health Posters, Monday, 18 January 2010, 2:30 PM-4:00 PM. The year 2007 was extremely hot across south-eastern Europe, and the warmest in the history of instrumental observations in Moldova. Practically all air temperature records were broken in winter, spring and especially in summer, with numerous heat waves and an extreme shortage of precipitation. An analysis also showed that while the summer of 2007 was unusual for the current climate, its temperature regime is very similar to what is projected for the second half of this century. This research includes the integrated climatological and epidemiological analysis of the warm period of 2007, aimed at (1) the identification of individual heat waves and their parameters (intensity, duration, etc.), and (2) the impacts of heat waves on human health (excess mortality and emergency hospital admission). Both time-series regression analysis (long-term dependence of mortality/morbidity on temperature and humidity) and heat-episode analysis were incorporated. A total of six heat waves and individual heat days during May-August 2007 occurred, with a total duration of 42 days, resulting in 234 excess deaths in four studied localities. The greatest increase of mortality was observed among the elderly population (75+) and in the city of Chisinau (6.5% against 2-3% in rural areas).

**Source:** <https://ams.confex.com/ams/90annual/webprogram/Paper166219.html>

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Meteorological Factors, Temperature

**Temperature:** Extreme Heat

#### Geographic Feature:

resource focuses on specific type of geography

Rural, Urban

#### Geographic Location:

# Climate Change and Human Health Literature Portal



resource focuses on specific location

Non-United States

**Non-United States:** Europe

**European Region/Country:** European Country


**Other European Country :** Moldova

**Health Impact:** 

specification of health effect or disease related to climate change exposure

Morbidity/Mortality

**Population of Concern:** A focus of content

**Population of Concern:** 

populations at particular risk or vulnerability to climate change impacts

Elderly

**Resource Type:** 

format or standard characteristic of resource

Research Article

**Timescale:** 

time period studied

Time Scale Unspecified